

# Microfluidics for single-cell visual proteomics

Fully funded PhD position available at the Biozentrum of the University of Basel, Switzerland.

The Biozentrum of the University of Basel is one of the leading Life Sciences Institutes in the world. It consists of 30 research groups and 500 employees investigating how molecules and cells create life, spanning the scale from atom to organism. Founded in 1971, the Biozentrum has been the birthplace of many fundamental discoveries in biology and medicine, spawning several Nobel Laureates.

We are looking for a motivated young scientist to work in Thomas Braun's interdisciplinary team. The project intends at further developing microfluidic sample preparation methods for single-cell nanoanalytics by electron microscopy. In particular, we aim to develop our visual proteomics workflow further. In addition, the new methodologies will be employed to study pathomechanisms and the structural proteome of neurodegenerative diseases.

## We offer

- A PhD position funded by the Swiss National Science Foundation (SNF)
- The project will be embedded in a small interdisciplinary research team and the Biozentrum of the University of Basel
- Access to state of the art facilities at the Biozentrum

## Your Profile

- Experience in instrument and/or software development
- Interest in basic biomedical research
- Completed master's degree in biology, computer science, engineering, physics, nanoscience, or related fields
- The ability to work both independently and as part of a team
- Good communication skills in English (oral and written)

## Application & Contact

Please send the following separate documents to [thomas.braun@unibas.ch](mailto:thomas.braun@unibas.ch): 1.) Your CV with contact details of two references; 2) A summary of your studies' research projects. State the rationale and goals of the research, and indicate your contributions to the results. 3) A short description of your general scientific interests. 4) Copies of your certificates and diplomas.

The position is available immediately, but the starting date can be negotiated.